

27572/84  
PF 9,129

APPLICATION ACCEPTED AND AMENDMENTS

COMMONWEALTH OF AUSTRALIA

ALLOWED 29.8.86

Patents Act 1952

COMPLETE AFTER PROVISIONAL SPECIFICATION No. 27572/84

APPLICATION FOR A STANDARD PATENT

We, AINSWORTH NOMINEES PTY. LIMITED,

555905

a company incorporated under the laws of the State of New South Wales, of 85-113 Dunning Avenue, Rosebery, New South Wales, Commonwealth of Australia hereby apply for the grant of a Standard Patent for an invention entitled

"POKER MACHINE COMMUNICATION SYSTEM"

which is described in the accompanying provisional specification.

Our address for service is:

F.B. RICE & CO.,

101 Mort St,

Balmain N.S.W. 2041

Dated this 29 day of April 1983

|               |            |
|---------------|------------|
| LODGE         | AUSTRALIAN |
| 61            | 2 MAY 1983 |
| PATENT OFFICE |            |

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| Date 29.4.83                                    |
| Receipt   |
| Application <input checked="" type="checkbox"/> |
| Declaration <input checked="" type="checkbox"/> |
| Specification 275                               |
| Drawings <input checked="" type="checkbox"/>    |

LODGE

AINSWORTH NOMINEES PTY. LIMITED

By:

Registered Patent Attorney

TO: The Commissioner of Patents,  
COMMONWEALTH OF AUSTRALIA

BEST AVAILABLE COPY

Commonwealth of Australia  
The Patents Act 1952  
**DECLARATION IN SUPPORT** 27572/84

In support of the (Specification) Application made by:

AINSWORTH NOMINEES PTY. LTD.

for a patent for an invention entitled: Poker Machine Communication System

I (We) Les J. McAvinue, Finance Director

of and care of the applicant company do solemnly and sincerely declare as follows:

~~a) I am the applicant for the patent~~

~~OR~~

b) I am (We are) authorised by the applicant(s) for the patent to make this declaration on its behalf.

Delete the following if not a Convention Application

~~The basic application(s) is/are (the) (patent) (application) (of) (the) (inventor) (of) (the) (invention) (to) (which) (this) (application) (is) (a) (claim) (to) (priority) (under) (the) (provisions) (of) (the) (Act))~~

~~OR~~

~~OR~~

~~OR~~

~~OR~~

~~OR~~

~~OR~~

~~OR~~

~~The basic application(s) referred to in this paragraph (is) (are) (the) (patent) (application) (of) (the) (inventor) (of) (the) (invention) (to) (which) (this) (application) (is) (a) (claim) (to) (priority) (under) (the) (provisions) (of) (the) (Act))~~

~~a) I am the actual inventor(s) of the invention~~

~~OR~~

b) Neville Gordon Harlick, of 23 Coniston Street,  
Wheeler Heights, N.S.W.,

is (are) the actual inventor(s) of the invention and the facts upon which

Ainsworth Nominees Pty. Ltd.

is (are) entitled to make the application are as follows:

The applicant is a person who would, if a patent were granted upon an application made by the actual inventor, be entitled to have the patent assigned to it under the provisions of Section 34(1)(fa) of the Act.

Declared at Sydney this twelfth day of April 1984

Signed



Status

Finance Director.

Declarant's Name

L.J. McAvinue.

**F. B. RICE & CO PATENT ATTORNEYS**

This form is suitable for any type of Patent Application. No legalisation required.

(12) AUSTRALIAN PATENT ABRIDGMENT  
(19) AU

(11) AU-B-27572/84

(54) POKER MACHINE COMMUNICATION SYSTEM  
(71) AINSWORTH NOMINEES PTY. LTD.  
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(43) 8.11.84 (44) 16.10.86  
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(72) NEVILLE GORDON HAWLICK  
(74) RI  
(56) 25946/84 542455 G07F 17/34; G07C 3/00  
(57) Claim

1. A system of gaming machines, comprising a communication system linking a plurality of gaming machines to a central control unit, each of said machines including credit recording means and means to enable operation of that machine, said means to enable operation being activated in response to a credit in the credit recording means, and the central control unit and each of the plurality of machines including transmitter and receiver means which are interconnected to form said communications system, wherein each credit recording means is interrogable and adjustable in response to commands from the central control unit, the commands being transmitted via the communication system, thereby enabling the credit in the credit recording means of any of said machines in the system to be established, cancelled, adjusted or moved to another machine in the system.

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COMMONWEALTH OF AUSTRALIA

Patents Act 1953

COMPLETE SPECIFICATION  
(ORIGINAL)

Applicant's Name: PF 9125 1757214

Date of Filing: 1 May 1953

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on 1 May 1953

at the Patent Office

Inventor's Name:

Patented Act 1953

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1915, 1917, 1919, 1921, 1923, 1925, 1927, 1929, 1931, 1933, 1935, 1937, 1939, 1941, 1943, 1945, 1947, 1949, 1951, 1953, 1955, 1957, 1959, 1961, 1963, 1965, 1967, 1969, 1971, 1973, 1975, 1977, 1979, 1981, 1983, 1985, 1987, 1989, 1991, 1993, 1995, 1997, 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017, 2019, 2021, 2023, 2025, 2027, 2029, 2031, 2033, 2035, 2037, 2039, 2041, 2043, 2045, 2047, 2049, 2051, 2053, 2055, 2057, 2059, 2061, 2063, 2065, 2067, 2069, 2071, 2073, 2075, 2077, 2079, 2081, 2083, 2085, 2087, 2089, 2091, 2093, 2095, 2097, 2099, 2101, 2103, 2105, 2107, 2109, 2111, 2113, 2115, 2117, 2119, 2121, 2123, 2125, 2127, 2129, 2131, 2133, 2135, 2137, 2139, 2141, 2143, 2145, 2147, 2149, 2151, 2153, 2155, 2157, 2159, 2161, 2163, 2165, 2167, 2169, 2171, 2173, 2175, 2177, 2179, 2181, 2183, 2185, 2187, 2189, 2191, 2193, 2195, 2197, 2199, 2201, 2203, 2205, 2207, 2209, 2211, 2213, 2215, 2217, 2219, 2221, 2223, 2225, 2227, 2229, 2231, 2233, 2235, 2237, 2239, 2241, 2243, 2245, 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3243, 3245, 3247, 3249, 3251, 3253, 3255, 3257, 3259, 3261, 3263, 3265, 3267, 3269, 3271, 3273, 3275, 3277, 3279, 3281, 3283, 3285, 3287, 3289, 3291, 3293, 3295, 3297, 3299, 3301, 3303, 3305, 3307, 3309, 3311, 3313, 3315, 3317, 3319, 3321, 3323, 3325, 3327, 3329, 3331, 3333, 3335, 3337, 3339, 3341, 3343, 3345, 3347, 3349, 3351, 3353, 3355, 3357, 3359, 3361, 3363, 3365, 3367, 3369, 3371, 3373, 3375, 3377, 3379, 3381, 3383, 3385, 3387, 3389, 3391, 3393, 3395, 3397, 3399, 3401, 3403, 3405, 3407, 3409, 3411, 3413, 3415, 3417, 3419, 3421, 3423, 3425, 3427, 3429, 3431, 3433, 3435, 3437, 3439, 3441, 3443, 3445, 3447, 3449, 3451, 3453, 3455, 3457, 3459, 3461, 3463, 3465, 3467, 3469, 3471, 3473, 3475, 3477, 3479, 3481, 3483, 3485, 3487, 3489, 3491, 3493, 3495, 3497, 3499, 3501, 3503, 3505, 3507, 3509, 3511, 3513, 3515, 3517, 3519, 3521, 3523, 3525, 3527, 3529, 3531, 3533, 3535, 3537, 3539, 3541, 3543, 3545, 3547, 3549, 3551, 3553, 3555, 3557, 3559, 3561, 3563, 3565, 3567, 3569, 3571, 3573, 3575, 3577, 3579, 3581, 3583, 3585, 3587, 3589, 3591, 3593, 3595, 3597, 3599, 3601, 3603, 3605, 3607, 3609, 3611, 3613, 3615, 3617, 3619, 3621, 3623, 3625, 3627, 3629, 3631, 3633, 3635, 3637, 3639, 3641, 3643, 3645, 3647, 3649, 3651, 3653, 3655, 3657, 3659, 3661, 3663, 3665, 3667, 3669, 3671, 3673, 3675, 3677, 3679, 3681, 3683, 3685, 3687, 3689, 3691, 3693, 3695, 3697, 3699, 3701, 3703, 3705, 3707, 3709, 3711, 3713, 3715, 3717, 3719, 3721, 3723, 3725, 3727, 3729, 3731, 3733, 3735, 3737, 3739, 3741, 3743, 3745, 3747, 3749, 3751, 3753, 3755, 3757, 3759, 3761, 3763, 3765, 3767, 3769, 3771, 3773, 3775, 3777, 3779, 3781, 3783, 3785, 3787, 3789, 3791, 3793, 3795, 3797, 3799, 3801, 3803, 3805, 3807, 3809, 3811, 3813, 3815, 3817, 3819, 3821, 3823, 3825, 3827, 3829, 3831, 3833, 3835, 3837, 3839, 3841, 3843, 3845, 3847, 3849, 3851, 3853, 3855, 3857, 3859, 3861, 3863, 3865, 3867, 3869, 3871, 3873, 3875, 3877, 3879, 3881, 3883, 3885, 3887, 3889, 3891, 3893, 3895, 3897, 3899, 3901, 3903, 3905, 3907, 3909, 3911, 3913, 3915, 3917, 3919, 3921, 3923, 3925, 3927, 3929, 3931, 3933, 3935, 3937, 3939, 3941, 3943, 3945, 3947, 3949, 3951, 3953, 3955, 3957, 3959, 3961, 3963, 3965, 3967, 3969, 3971, 3973, 3975, 3977, 3979, 3981, 3983, 3985, 3987, 3989, 3991, 3993, 3995, 3997, 3999, 4001, 4003, 4005, 4007, 4009, 4011, 4013, 4015, 4017, 4019, 4021, 4023, 4025, 4027, 4029, 4031, 4033, 4035, 4037, 4039, 4041, 4043, 4045, 4047, 4049, 4051, 4053, 4055, 4057, 4059, 4061, 4063, 4065, 4067, 4069, 4071, 4073, 4075, 4077, 4079, 4081, 4083, 4085, 4087, 4089, 4091, 4093, 4095, 4097, 4099, 4101, 4103, 4105, 4107, 4109, 4111, 4113, 4115, 4117, 4119, 4121, 4123, 4125, 4127, 4129, 4131, 4133, 4135, 4137, 4139, 4141, 4143, 4145, 4147, 4149, 4151, 4153, 4155, 4157, 4159, 4161, 4163, 4165, 4167,

The present invention relates to poker machines (otherwise known as slot machines or fruit machines) in general, and in particular to a communication system for a poker machine installation which allows remote crediting and debiting of a player's balance in an individual poker machine from a central control unit.

It is commonly known to produce poker machines in which the player may establish a credit by inserting one or more coins or tokens, thereby enabling the machine to be operated until the credit has been exhausted. In such machines, payment of prizes is normally achieved by increasing the credit in the machine by an appropriate amount, and the player is able to redeem his credit at any time, either directly from the machine or by receiving prizes to the value of his credit.

It is also known to connect poker machines in an installation to a central computer system which can interrogate each machine in the system to gather audit data collected by the machines during their normal course of operation. This audit data includes data relating to the number of coins or tokens inserted into the machine, the number of times the machine has been played, the amount paid in prizes, the number and the type of jackpots paid by the machine, and the number of door openings, etc. since the last interrogation of the machine.

It is also common in some countries to operate poker machine systems wherein the player does not insert coins or tokens into the machine being played, but instead pays at a central location. The cashier on receiving the appropriate payment then credits the machine remotely by transmitting electrical pulses to the machine. Payment of prizes are made by an operator who reads a credit meter on the machine when the player wishes to stop playing. The credit is then paid either as a cash amount, or as a prize of equivalent value to the credit meter reading.

The present invention consists in a system of gaming machines, comprising a communication system linking a plurality of gaming machines to a central control unit, each of said machines including credit recording means and means  
5 to enable operation of that machine, said means to enable operation being activated in response to a credit in the credit recording means, and the central control unit and each of the plurality of machines including transmitter and receiver means which are interconnected to form said  
10 communications system, wherein each credit recording means is interrogable and adjustable in response to commands from the central control unit, the commands being transmitted via the communication system, thereby enabling the credit in the credit recording means of any of said machines in the system  
15 to be established, cancelled, adjusted or moved to another machine in the system.

The communication means would preferably be in the form of a digital communication link wherein data is transmitted via interconnecting wires, however, transmission can also be  
20 via optical fibres, electro-magnetic transmissions, or any other suitable transmission medium.

The present invention in addition to being applicable to poker machines, is also applicable to video game machines and installations thereof.

25 An embodiment of the invention will now be described, by way of example, with reference to the accompanying drawings in which:

Fig. 1 is a block diagram of a poker machine communication system according to the present invention;

30 Fig. 2 is a block diagram of one chain at the system in Fig 1, showing more detail;

Fig. 3 schematically illustrates the circuit of the multiplexing unit of Fig. 2;

Fig. 4 is a flow chart of the multiplexing unit of Fig.  
35 3;

Fig. 5 schematically illustrates the circuit of the poker machine interface unit of Fig. 2;

Fig. 6 is a flow chart for that part of the poker machine operating program which services the communications interface; and

Fig. 7 is a partial block diagram of a poker machine micro processor control system, illustrating the interconnection of the interface unit Fig. 5 to the machine.

As illustrated in Fig. 1, a system according to the present invention comprises a plurality of poker machines 100a-100h connected together and to a central controller CPU 101 via a communications network. In the illustrated system, a number of CPU communications ports 102 are provided each one of which is connected to a Multiplexing Unit 103, which in turn has connected to it a number of machines 100a-h which are "daisy chained" together. This interconnection system is not in itself novel and other suitable systems of interconnection could serve equally well. A number of Video Display Units 104 are also connected to the control CPU 101, via additional communications ports 105, to enable control and interrogation of the system by one or more operators. Reports of system and machine status may also be obtained on a printer 116 (see Fig. 2) connected to the central computer 101 via a port 117.

Each of the poker machines 100 in the system is of the type which incorporates a micro-processor to control the operation of the machine. This microprocessor collects and holds the audit data as part of it's normal function. However, in the present system the micro-processor is programmed to transmit the audit data to the controller CPU 101 via the communication system, in response to an interrogation signal from the controller CPU.

Another function which the microprocessor in the poker machine normally performs, is the maintaining of a record of the player's current credit balance. In systems according to

the present invention, this function is also adapted to be remotely monitored and controlled by the central controller CPU via the communication system.

The system of the present invention will not only allow  
5 the system operator to increase or decrease the player's credit in a particular machine, such as when the player 'buys' more credit or requests his credit to be paid out, but also allows the player's credit to be transferred from one machine to another. These features of the system may be  
10 provided at a relatively low cost where the system already incorporates a communication system for the collection of audit data.

While the system of the present invention can be used to provide a coinless poker machine installation, wherein the  
15 machines are not provided with means for inserting coins, it is not intended that the invention be limited to this type of installation, as systems wherein the player has the choice of inserting coins into a machine, or alternatively having the machine remotely credited are also possible.

20 Another known method of gathering audit data involves an operator moving from machine to machine with a portable module which is placed against a Light Emitting Diode (LED) display on the machine. A switch on the machine is then operated, causing the machine to modulate the light output of  
25 the LED with a digital signal representing the audit data. The portable module, which incorporates a cassette tape recorder, receives the audit data and then records it onto a standard audio cassette tape which may be later replayed to load the data collected from each of the machines into a  
30 central computer. This method of data collection may be incorporated into machines in an installation according to the present invention, as a back-up data collection system, which would be used when the communication system of the present invention is being serviced or is out of operation  
35 due to malfunction.



The preferred embodiment of the present invention operates under the control of a program running on a PDP-11 computer 101 under the RSX-11 operating system to facilitate the on-line communication of poker machines 100 connected thereto. The program also allows for both on-line data collection and remote credit facilities.

The actual network that supports the on line communication facilities of the preferred embodiment of the system enables the connection of up to 1000 machines in a "Daisy Chain" serial network to the central computer.

The block diagram, illustrated in Fig. 2, shows the basic configuration of one chain of the network according to the preferred embodiment. The purpose of the network is to enable communication between a plurality of poker machines and a computer via an RS232 serial communication line 106 operating at 300,600,1200 or 2400 baud, which is in turn interfaced to a multiplexed communications channel. The multiplexed channel is a three wire implementation (Request (107), Reply (108) & common (109)) in a master slave environment whereby the central computer initiates all responses. That is, the poker machines "speak only when they are spoken to". This type of polled network will avoid any data collision between devices.

The information from the central computer system to the multiplexing (MUX) unit is in standard RS232 format. This is then converted into a format which has been developed for the present systems and which will be referred to hereinafter as SYCOM format. The SYCOM format uses 50 volt signal lines to allow high noise immunity with parity checking for error detection. As with RS232 it is an asynchronous line but uses a modified frequency shift keying to encode the information. Once the MUX transmits the message on the request line 107 to the poker machines 100 it then waits for a response on the reply line 108. If the particular machine 100 required for access is busy at this time the MUX unit will generate the

appropriate message back to the central computer system 101. Otherwise it will decode the response and reformat it back to RS232 ready for transmission to the computer. Also, if data is corrupted, the MUX will alert the central computer system  
5 100.

Referring to Figure 3, the Terminal Multiplexing Unit (MUX) consists of three main sections, a digital control circuit, a set of 50 volt line driver and line receiver circuits, an RS232 interface and a power supply.

10 The digital control circuit contains a micro processor U12 and its support devices. These include a serial interface adaptor (ACIA - 6850) U1 to facilitate the RS232 computer interface and a parallel interface adaptor (VIA - 6522) U15 for the poker machine communications.

15 The 50 volt line driver and receiver circuits comprise eight identical circuits (only one shown for simplicity) which connect the 5V signals of the digital section to the 50V lines used to communicate with the poker machines. 50 Volt lines are used to improve noise immunity and are coupled  
20 by opto-couplers, to isolate them electrically both from the poker machines and the control computer.

The poker machines 100 are arranged in groups, each group connected to one of the line driver circuits, with a maximum of eight groups per multiplexer.

25 If a fault occurs on one of the lines, only the group in which the fault occurs will be affected, the other groups being able to communicate normally.

The RS232 interface uses a standard bus oriented interface device, together with standard line driver and  
30 receiver devices.

The power supplies (not shown) provide regulated + 5V for the digital section, + 12V and -12V for the RS232 drivers and an isolated 50V DC for the communication lines.

When inactive, the processor U12, under control of it's  
35 stored program, monitors the RS232 input line from the

control computer 101. When it senses that a complete command has been issued, transmission to the poker machines begins over the request line 107.

Since the slot machines are all daisy-chained together, they all receive the message but only the selected machine will respond.

The processor waits for the complete response, then relays the information back to the computer over the RS232 communications channel.

10 The clock for the ACIA U1 is derived from the 1 MHz system clock using one of the timers in the VIA U15 to perform division.

Once initialized, the timer causes port line PB7 to oscillate without further processor intervention, this signal being used as the transmit clock TxC and the Receive Clock RxC of the ACIA.

A "watch dog" circuit is also provided (not shown), which will reset the processor whenever an output line of the VIA stops toggling, this line being toggled by the software, in order that, if the processor stops operating, it will be automatically reset after a brief period.

Port line PB1 is fed to OP-AMP comparitors UA1 which drive the photo diode in each of the OPTO couplers UB. The opto-coupler UB switches on transistor QA which in turn switches on transistor QB, opening the path between the 50 volt supply and the request line.

The response line is held high by a 470 Ohm pull-up resistor RH connected to the 50V supply. When a reply comes from the slot machine, the line 108 is pulled low by a photo transistor on the machine interface board (MIF), causing the phototransistor in UC (4N38) to cut off and lowering the voltage at pin 5 of the comparator UAS (LM324). The output of UA2 is connected to input PA of the VIA U15 which can be read by the processor U12.

35 The operation of the MUX is controlled by a program

stored in the ROM U5, while the various data buffers, required to temporarily store data passing through the MUX, are located in the RAM U9.

Referring to Fig. 4, the operation of the MUX is controlled by two programs, one of which provides the operating procedure for the MUX, and the other of which is an interrupt routine which services the RS232 communication link with the central computer 101.

The main program commences operating upon a reset signal and after initializing the communications devices, it waits for an input flag to be set, indicating that a command has been received from the central computer. When such a command has been received, a test is performed to determine whether the command is directed to the MUX or to one of the poker machines 100, and if it is directed to the MUX, it is acted upon and the input flag cleared, after which the MUX again waits for the input flag to be set.

If the command is for a poker machine 100 connected to the MUX, the command is then retransmitted over the 50 volt request line 107 and the machine response monitored. After testing the machine response for errors, it is then retransmitted to the central computer over the RS232 communications channel 106 and the input flag cleared. The MUX then waits for the input flag to be set again and repeats the whole routine.

In parallel with operating program, a second, interrupt driven routine services the RS232 receiver. This routine reads the ACIA input register in response to an interrupt signal generated by the ACIA U1, the interrupt signal being generated when the ACIA has received a data word from the central computer 101. The RS232 service routine then stores the received data and also tests the data word to determine whether it is the last word of a message transmission. If the data word is the last word of a transmission, the input flag is set, indicating to the operating program that a

complete message has now been received. The RS232 service routine then allows control to be returned to the main operating program which will then continue from where it was interrupted.

5 A "watchdog" routine is also included in the main operating program (not shown in Fig. 4), which toggles a line of the VIA U15, causing the "watchdog" circuit to hold the reset line high. If the Operating Program halts for more than a predetermined time, the "watchdog" circuit will cause  
10 the reset line to go low, due to the absence of transitions on the toggled line.

Referring now to Figure 5, each poker machine has an interface card which translates the SYCOM signals back to TTL signal levels. This card also has the serial number setting  
15 which allows each machine to have a unique number in the range 0 to 9999. This card interfaces to the poker machine processor via an I/O port (6821 FIA lines) and provides isolation by means of opto couplers. All outputs are open collector, enabling them to be in parallel to the common  
20 "reply" line 108. The input terminal of the machine is connected to the LED of an opto-coupler, all of the machine inputs being connected in parallel to the "request" line 107.

Normally, if a command cannot be executed successfully by the poker machine it will issue a negative acknowledge  
25 (NAK).

Serial data from a peripheral interface adaptor (P.A.) in the poker machine appears on the data output line (Fig 5) 70, and drives IC1/1, which is one section gate of a quad 2 input NAND gate.

30 IC1 is a CMOS Schmidt trigger device and is used to provide sufficient drive capability for the H11G2 OPTO coupler.

Zener diode ZD1 is used to provide protection for the output driver against voltage spikes on the reply line 108  
35 (TX).

The other end of the reply line 108 has a 470 Ohm pull-up resistor to 50 volts which is situated in the MUX unit 103.

To enable data from the poker machine to appear on the response line, SEL must be a logic "1". This condition also enables IC1/4, thus allowing data from the request line RX to appear at the data input line, Di.

The request line also swings between 0 to 50 volts when data is being transmitted and drives IC5 via current limiting resistor R5. The output from IC5 is gated through IC1/4 and IC1/3 which also gates the signal from IC3 onto the Di line.

IC1/2, IC2 and IC3 provide the means of setting the machine serial number. When SEL goes low, the output of IC1/2 goes high and a short pulse provided by C2/R6 is applied to the parallel load pins of shift registers IC2 and IC3. This loads the shift registers with the rotary switch settings. SEL going low disables IC1/4 to prevent request data from entering through and the high level on the output of IC1/4 enables IC1/3 allow the shift register output to be clocked into the Di line.

The shift registers are clocked by toggling the Di line. The machine processor does this 16 times to read the switch settings. Note that the shift input to IC2 is tied high so that the 16th data bit clocked through the registers will always be a logical "1", thus ensuring that pin 5 of IC3 is left in the high state at the end of a serial number read cycle. This means that IC1/3 is enabled so that request data can be read.

The block diagram of Fig. 7 illustrates the method by which the machine interface of Fig. 5 is interconnected with a poker machine in order to allow communication with a poker machine system. The machine interface unit 111 is connected to a peripheral interface adaptor (PIA) 122, which is in turn connected to the microprocessor control unit 113 of the poker machine 100. An interrupt routine which is used to

service the machine interface unit 111 resides in a ROM 114 while statistical data gathered by the machine is stored in a RAM 115. The input and output buffers required by the interface service routine are also implemented in the poker  
5 machine's RAM 115.

Referring now to Fig. 6, the interrupt routine provided in the program of each poker machine, which enables the servicing of the machine interface to the communication system, is illustrated in block diagram form. This routine  
10 is entered in response to an interrupt signal generated by the PIA 112 to which the machine interface 111 is connected, the interrupt signal being generated when the request line 107 goes high.

The interrupt routine tests for a valid start pulse by  
15 delaying for a period and then retesting the state of the request line 107 to ensure that the start pulse is sufficiently long. If the start pulse is invalid, control returns to the poker machines main program.

If a valid start pulse has been received, the machine  
20 waits for the start of the next pulse on the request line 107 and then starts a timer and waits for the end of the pulse, at which time, the timer is read to determine the length of the pulse, a '0' being represented by a 1ms pulse and a '1' being represented by 2ms pulse. The received bit is then  
25 written into the input buffer and the buffer tested to see if a complete character has been received. As each character is received, it is tested to determine whether it is the last (i.e. E7B) character of the transmission and if so, the command is decoded and tested to determine whether it was  
30 directed at that particular machine.

Once the machine has determined that the command was directed to it, the necessary tasks are performed and a reply message formulated and stored in an output buffer. The reply is then read from the output buffer, bit by bit, each bit  
35 being used to control the width of a successive pulse

transmitted on the reply line(TX)108. Once the output buffer is empty, control of the poker machine is again returned to the main program of the machine.

In the preferred embodiment of the present invention the  
5 central computer will send a machine serial number over the communication system, which is decoded by all poker machines in the system. The machine corresponding to the transmitted serial number will then transmit data back to the computer over the communication system.

10 The protocol devised consists of a Start Transmission Character (STX) followed by the machine serial number (XXXX), a command character (C) and data value (YYY), if required (as in remote credit transactions), and finally an End  
15 Transmission Block Character (ETB), to indicate the end of the transmission. In order to catch this data, the machine must be in the idle mode, hence if the machine is in play at this time it will not decode the message which must then be re-transmitted.

On detecting a STX from the central computer, the  
20 interface (I/F) will generate a Request Data Signal (RDS) on the Transmit line to wake up the machines, it will then pass on the data packet in the correct format until the End Transmission Block (ETB) is detected. The selected machine will then transmit the required data back to the interface  
25 unit which will format it into RS-232 and pass it on to the central computer system. The poker machine does not generate the STX character when it responds to a command from the central computer system, since the STX is used only to generate the RDS signal from the I/F unit to wake up the  
30 available machines when a command is first issued. However, the ETB is used at the end of the response to indicate the end of the transmission.

This list of command characters used in the system is as follows:



| <u>"C" Command Listing</u> |   | <u>Description</u>   |
|----------------------------|---|--|
|                            | A | Opto-Audit data is required (and cleared)  |
|                            | S | Opto-Audit data is required  |
| 5                          | I | Sending credit to machine. Actual value will follow this letter.   |
|                            | D | Collect any remaining credit on the machine. (same as COLLECT button but data is sent to the change booth) |
| 10                         | Z | Machine lockup, needed until the player can get back to the machine.                                       |
|                            | R | Release the machine ready for playing.   |
|                            | J | Jackpot reset  |
|                            | O | Cancel Credit reset  |
|                            | F | Flash mode to identify a machine   |

15 A list of ASCII control characters used by the system is as follows:

| <u>Character</u> | <u>Description</u>   | <u>Keyboard</u> | <u>Hex Value</u> |
|------------------|----------------------|-----------------|------------------|
| STX              | Start of text        | ^B              | 02               |
| ETB              | End Transmission     | ^W              | 17               |
| 20 ACK           | Acknowledge          | ^F              | 06               |
| NAK              | Negative Acknowledge | ^U              | 15               |
| CAN              | Cancel               | ^X              | 18               |

( ^ indicates use of the "control key")

25 A description of each of the system commands will now be given, wherein the following symbols are used to indicate data fields in the command format and response:

- a MACHINE SERIAL NUMBER
- b CANCEL CREDIT
- c COINS OUT
- 30 d COINS IN
- e JACKPOTS
- f CASH BOX TOTAL
- g STROKES
- h DOOR OPENINGS
- 35 i YO-YO'S

j REEL VIOLATIONS  
k EXISTING CREDIT  
m SHORT TIMEOUTS  
n LONG TIMEOUTS

5

COMMAND: A  
DESCRIPTION: Collect audit data and clear the audit meters.  
FORMAT: STX XXX A ETB

10

RESPONSE:  
XXX S \* a b c d e f g h i j k l  
a n ETB

NOTE: the "\*" character will precede the  
audit data if the door is open. If the door  
is closed this character will not appear.

15

COMMAND: S  
DESCRIPTION: Collect audit data but do not clear the audit  
meters.

FORMAT: STX XXX S ETB

20

RESPONSE: XXX \* a b c d e f g h i j k l m  
n ETB

NOTE: the "\*" character will precede the audit data if the  
door is open. If the door is closed this character will not  
appear.

25

COMMAND: I  
DESCRIPTION:

30

Increment the credit meter by a specified  
value. This command must be issued twice so  
that the poker machine can match the value  
and verify the transaction accordingly. For  
the first command it will return an ACK to  
acknowledge receipt of the data packet. On  
the second transmission it will compare the

35

5

**10**

15

20

**FORMAT ( 2 ) :**

**RESPONSE:**

25

**DESCRIPTION:**

30

that value matched to the credit meter. If

the value did not match it will respond with a NAK followed by the value it tried to match to (ie the existing credit). This command is used when the player wants to transfer his credit to another machine, or perhaps collect it in the form of chip credit at the change booth.

5

FORMAT:  
RESPONSE:

STX XXX D YYY ETB  
ACK YYY ETB

10

COMMAND:  
DESCRIPTION:

Z  
Lock the machine. This command is used to lock a machine to enable a player to get back to his machine after he has requested remote credit. That is the player must go to a remote terminal operator and specify the machine to play. The players credit is then given to the machine and if the player cannot get to the machine the operator can lock it up. In this mode the machine will display "LLLL" on the credit meter.

15

20

FORMAT:  
RESPONSE:

STX XXX Z ETB  
ACK ETB

25

COMMAND:  
DESCRIPTION:

R  
Release a machine ready for play after being locked up. This command must be issued after the lock command to enable normal operation. When a machine is in the locked state it will respond with a negative acknowledge (NAK) to all other commands. Hence the "R" command is the only command recognized in the lock mode.

30

FORMAT:  
35 RESPONSE:

STX XXX R ETB  
ACK ETB

COMMAND:  
DESCRIPTION:

J

5

10

FORMAT:  
RESPONSE:

Jackpot reset. Same effect as operation of the jackpot keyswitch when the machine is in the jackpot mode. The response to this command will only contain the J/P audit meter value if the machine is in the play mode, that is, a jackpot reset will be acknowledged but no value returned if the machine is in the service mode. The poker machine will respond with a NAK if it is not in the jackpot mode when this command is issued.

STX XXX J ETB

ACK YYY ETB

15

COMMAND:  
DESCRIPTION:

Q

20

25 FORMAT:  
RESPONSE:

Cancel credit reset. Same effect as the Jackpot Keyswitch during a cancel credit mode. The response to this command will only contain the cancel credit audit meter if the machine is in the play mode during the cancel credit. The poker machine will respond with a NAK if it is not in a cancel credit mode when this command is issued.

STX XXX Q ETB

ACK YYY ETB

COMMAND:

P

30 DESCRIPTION:

Flash the light tower to identify the machine. There is an optional "B" character with this command to add sound to the flash mode. Also the value following the "P" will determine the flash period in seconds. When

the machine is in this mode it cannot respond to any other commands.

FORMAT: STX XXX F YYY B ETB

RESPONSE: ACK ETB

5

If the MUX unit cannot understand information coming from a poker machine at any time, it will send CAN to the central computer system, preceded by an error number. Also, if the interface gets no response from the machines after sending data it will generate a CAN to the central computer system (preceded by a zero to indicate that the data was lost or ignored by busy machines).

10

The following is a list of error codes generated by the Interface Unit:

15

Error Number

Description

0

No response from poker machines

1

Start bit error

2

Reserved

20

3

Stop bit error

4

Space between data pulses too long

5

Pulse too short (< 600usec)

6

Pulse not well defined ( $1.4\mu s \leq t \leq 1.6\mu s$ )

25

7 Pulse too long (> 2.4msec)

8 Parity error 0 when expecting 1

9 Parity error 1 when expecting 0

On power up the unit will transmit +++MWAM to the central computer system. Also some diagnostic facilities are available with the MUX unit in the form of the following commands.

30

COMMANDS:

SHORT, LONG

DESCRIPTION:

These are used to vary the pulsed length of the RDS signal which is generated when the STX character is sent to the I/P.

35

The long pulse is used for the Jackpot Reset and Cancel Credit functions. All others used the short pulse length. After the command the I/F waits for a value which is interpreted as a 5mSec unit. SHORT AW (or LONG AW)  
YYYYAW  
No response back to user but RDS pulse from now on is set to new value YYY.

5

10

**FORMAT(1) :**

**FORMAT (2) :**

**RESPONSE:**

15

**COMMAND :**

**DESCRIPTION:**

20

**FORMAT:**

**RESPONSE:**

25

**COMMAND :**

**DESCRIPTION:**

30

**FORMAT:**

**35 RESPONSE:**

**COMMAND:**  
**DESCRIPTION:**

**DUMP**

This command will dump the contents of the command buffer back to the central computer system. Notice that it does not require the terminating STB (^W) character, and that it is a one character command (^A means Control char). Also a ^Z must be issued to stop the second buffer dump, since the dump begins at address \$0000 (command buffer) and will continue through memory.

**FORMAT:**  
**RESPONSE:**

**^D**

Contents of the I/P command buffer in HEX format:

C000 17 52 4F 53 53 20 FF FF FF FF FF FF  
FF FF FF FF CR  
C010 FF FF FF FF FF FF FF FF FF FF FF  
FF FF FF FF CR  
C020 FF FF FF FF FF FF FF FF FF FF FF  
FF FF FF FF CR  
C030 FF FF FF FF FF FF FF FF FF FF FF  
FF FF FF FF CR... and so on

**25 COMMAND:**  
**DESCRIPTION:**

**DUMP 2**

This command will dump the contents of the response buffer back to the central computer system. The response buffer contains the characters received from the poker machines after a command has been issued. A ^Z must be issued to stop the response buffer dump, since the dump begins at address \$C200 (receive buffer) and will continue through memory.





**COMMAND:**  
**DESCRIPTION:**

**DIRECTORY**

This command returns all the available commands for the I/F unit. To enable easy formatting each command is followed by a CR (\$OD). Note that the single character commands are not listed in the directory (eg. A Z, A D)

**FORMAT:**  
**RESPONSE:**

DIRAW  
AM

LONGAM  
SHORTAM  
ECHOAM  
DUMP2AM  
DUMP3AM  
NOECHOAM  
DIRAM  
TESTAM  
AW

**COMMAND:**  
**DESCRIPTION:**

**RESET**

This command is used to reset the I/F unit as in the power up sequence or hardware reset on the printed circuit board. Note that this is a one character command and does not require the ETB termination character.

**FORMAT:**  
**RESPONSE:**

AZ  
+++AWAM

It will be recognized by persons skilled in the art that numerous variations and modifications may be made to embodiments of the invention as hereinbefore described without departing from the spirit or scope of the invention as it is broadly described.

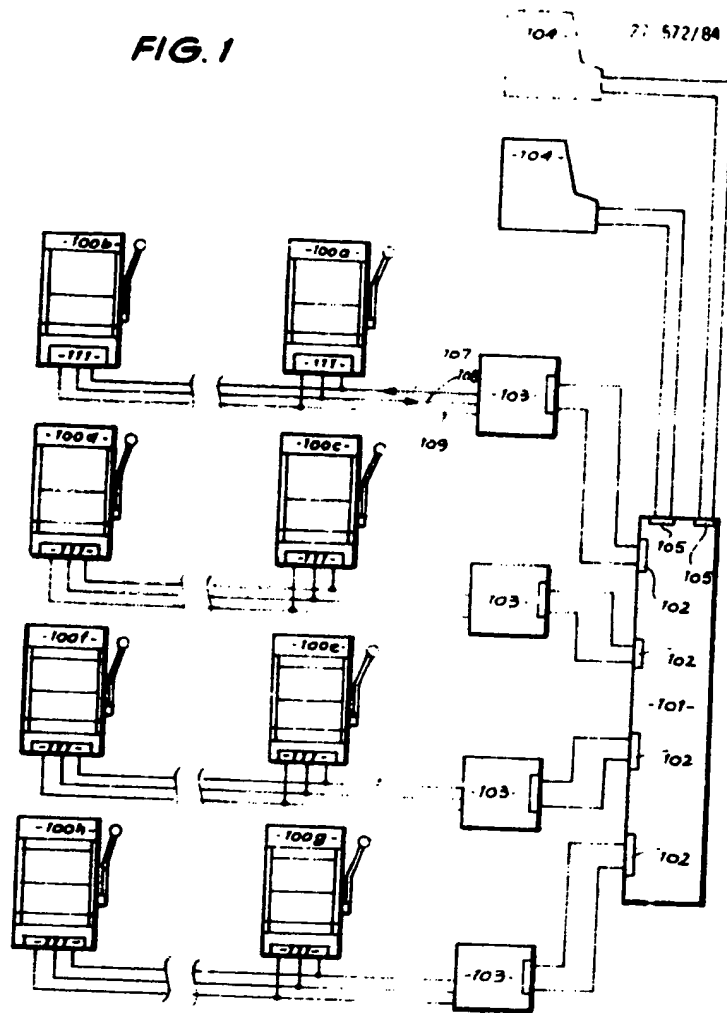
The claims defining the invention are as follows:-

1. A system of gaming machines, comprising a communication system linking a plurality of gaming machines to a central control unit, each of said machines including credit recording means and means to enable operation of that machine, said means to enable operation being activated in response to a credit in the credit recording means, and the central control unit and each of the plurality of machines including transmitter and receiver means which are interconnected to form said communications system, wherein each credit recording means is interrogable and adjustable in response to commands from the central control unit, the commands being transmitted via the communication system, thereby enabling the credit in the credit recording means of any of said machines in the system to be established, cancelled, adjusted or moved to another machine in the system.
  2. The system as claimed in claim 1 wherein a multiplexing unit is located between the central control unit and the plurality of poker machines.
  3. The system of claim 2 wherein the poker machines connected to the multiplexing unit are each connected thereto via to a common three wire bus.
  4. A system of gaming machines substantially as hereinbefore described with reference to the accompanying drawings.
- DATED this 30th day of April, 1984.

AINSWORTH NOMINEES PTY. LTD.  
Patent Attorneys for the  
Applicant:

F.B. RICE & CO.

FIG. 1



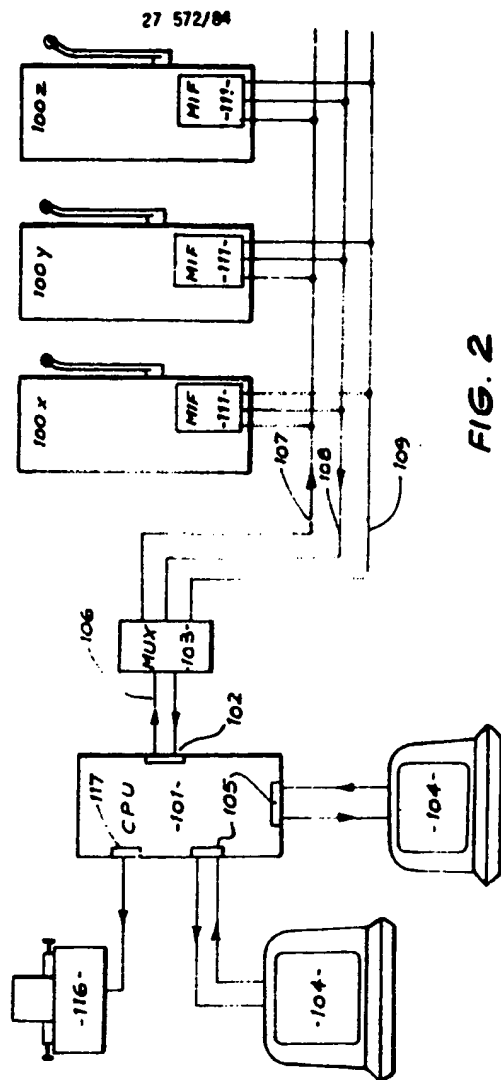




FIG. 2

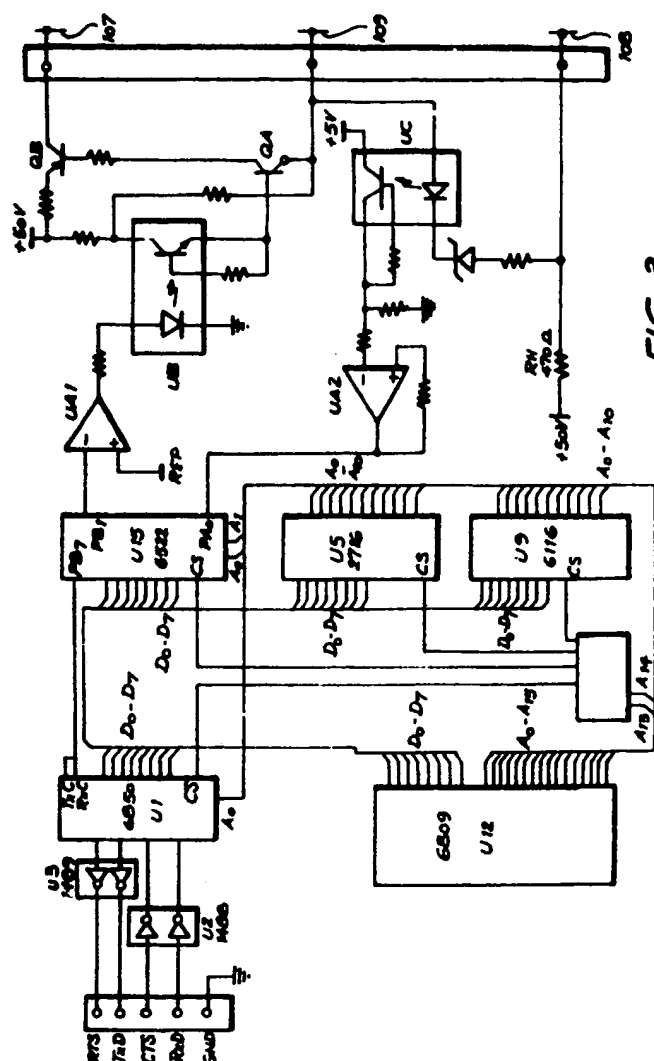












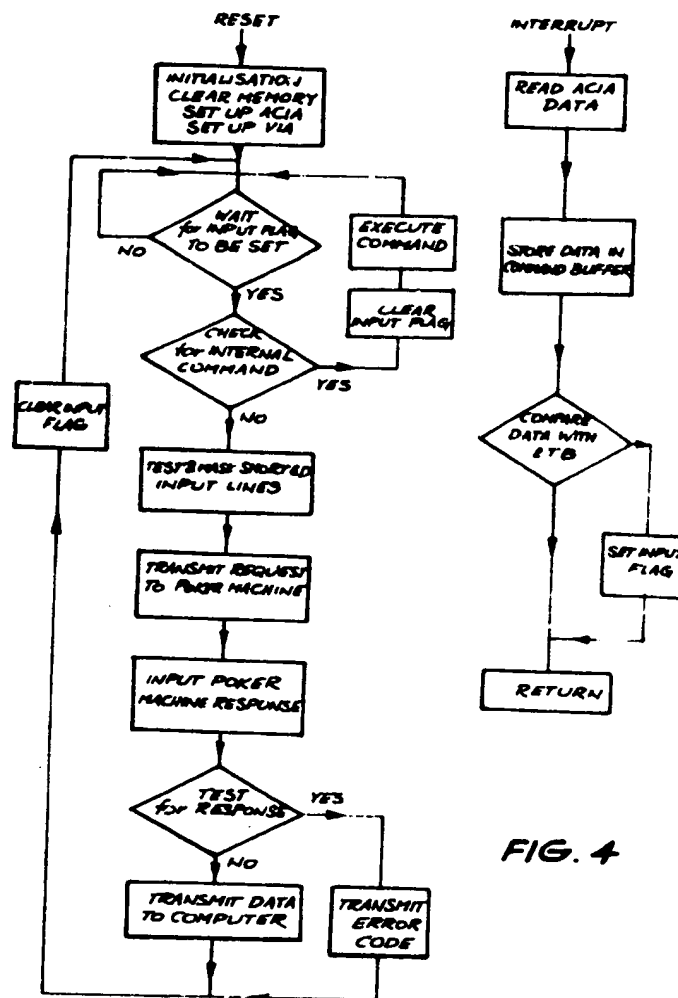
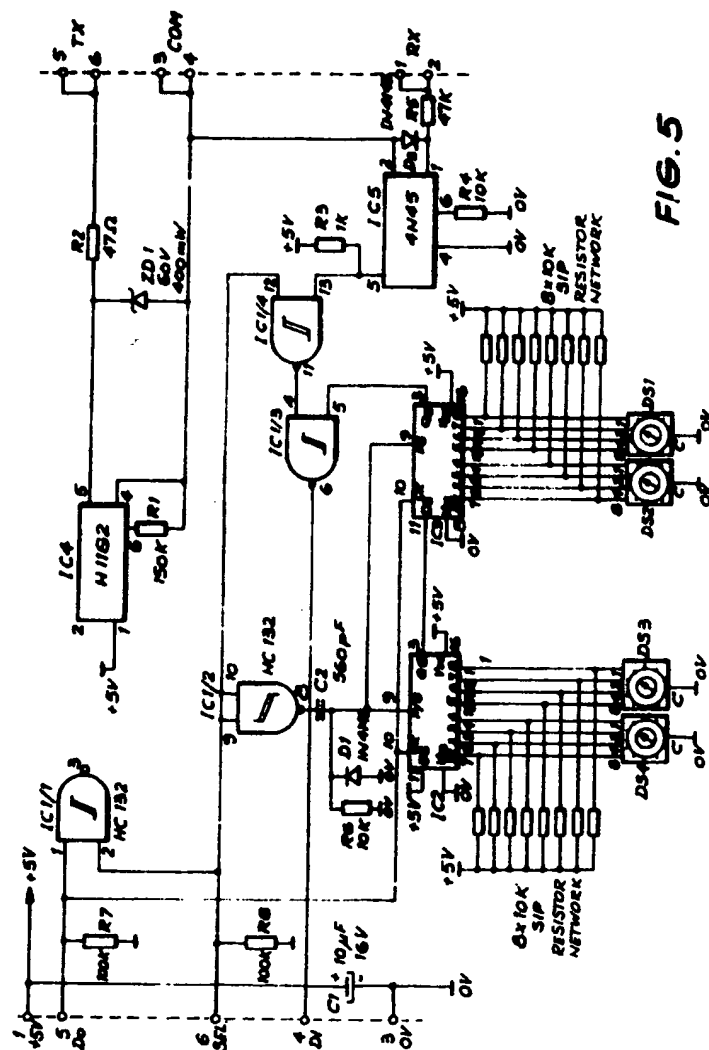
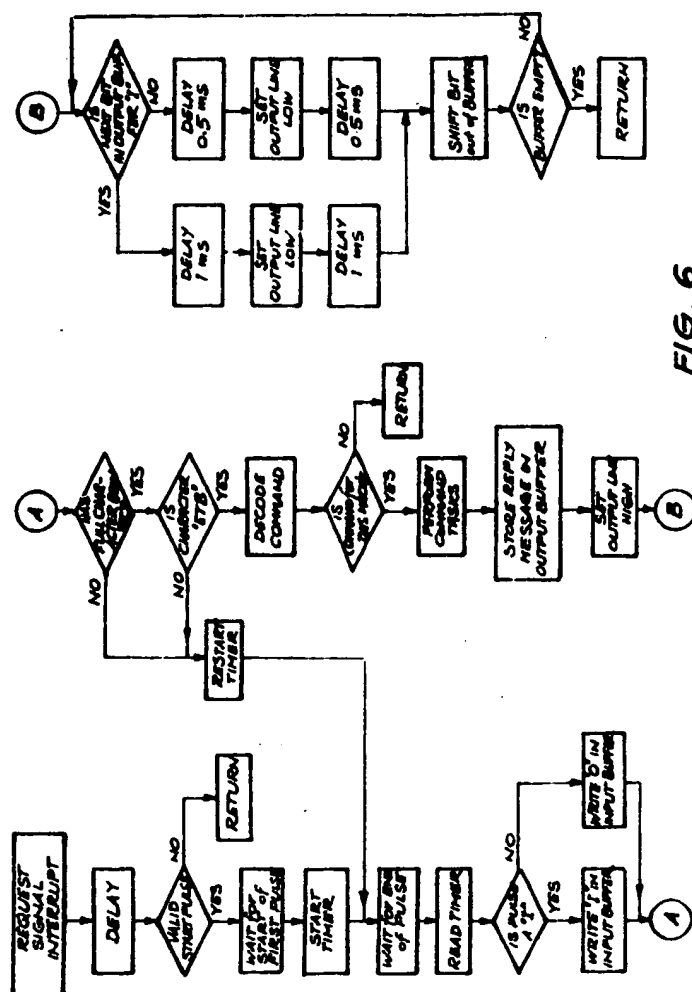


FIG. 4







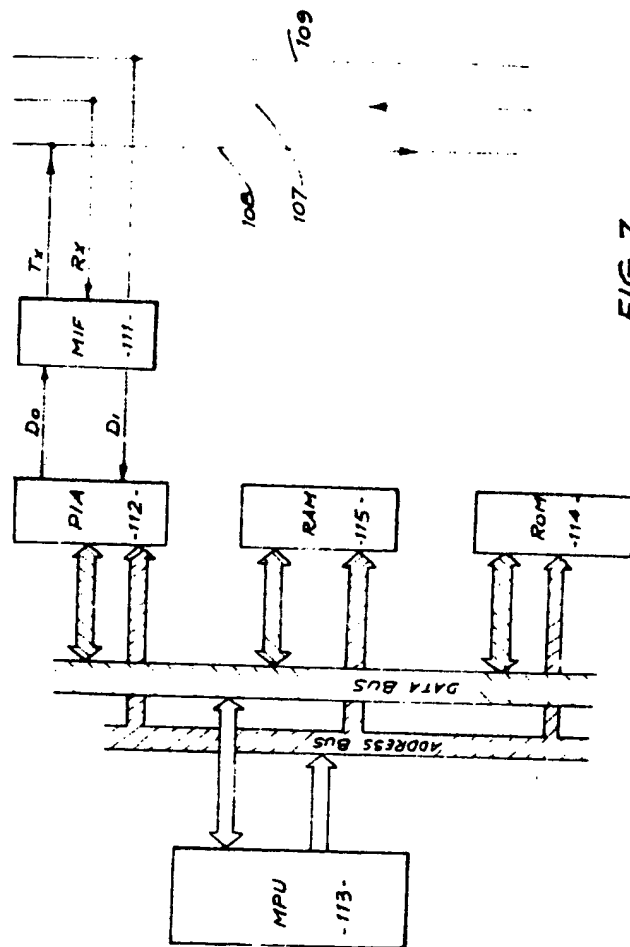


FIG. 7

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